BRUHATH BANGALORE MAHANAGARA PALIKE

Name of the Agency	:	**Technical Manager**, KRIDL, Bangalore.
Name of the Work	:	Improvements of Roads (UGD Laying Roads) and Drains in Sandyagappa Reddy Layout, Mariyannapalya in Ward No.07 Byatarayanapura, BBMP, Bangalore.
Estimate Cost	:	Rs.

QUALITY CONTROL REPORTS TO

Asst. Executive Engineer,
Kodigehalli Sub Division,
BBMP, Bangalore.

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NABL ACCREDITED LABORATOTY AS PER ISO / IEC – 17025:2005
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QUALITY CONTROL REPORTS FOR

CIVIL WORKS

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.07/KRIDL/CEMENT/2014-15

Date: 07.06.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager**, KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements of Roads (UGD Laying Roads) and Drains in Sandyagappa Reddy Layout, Mariyannapalya in Ward No.07 Byatarayanapura, BBMP, Bangalore.
REFERENCE	:	AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 06.06.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	450 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	25.50 %	-

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Job No.: CTCE/BBMP/W.No.07/KRIDL/SAND/2014-15 : 07.06.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements of Roads (UGD Laying Roads) and Drains in Sandyagappa Reddy Layout, Mariyannapalya in Ward No.07 Byatarayanapura, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 06.06.2014

Date of Testing : 07.06.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	102	5.10	5.10	94.9	90-100
2.36	215	10.75	15.85	84.2	75-100
1.18	522	26.10	41.95	58.1	55-90
600 Micron	409	20.45	62.40	37.6	35-59
300 Micron	487	24.35	86.75	13.3	8-30
150 Micron	208	10.40	97.15	2.8	0-10

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Job No.: CTCE/BBMP/W.No.07/KRIDL/AGG/2014-15 : 07.06.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements of Roads (UGD Laying Roads) and Drains in Sandyagappa Reddy Layout, Mariyannapalya in Ward No.07 Byatarayanapura, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 06.06.2014

Date of Testing : 07.06.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	985	3.94	3.94	96.06	95-100
20	15370	61.48	65.42	34.58	30-70
10	5845	23.38	88.80	11.20	10-35
4.75	2340	9.36	98.16	1.84	0-5

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Job No.: CTCE/BBMP/W.No.07/KRIDL/STEEL/2014-15 07.06.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager**, KRIDL, Bangalore.
Name of the work	:	Improvements of Roads (UGD Laying Roads) and Drains in Sandyagappa Reddy Layout, Mariyannapalya in Ward No.07 Byatarayanapura, BBMP, Bangalore.
Reference	:	AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 06.06.2014
Date of Test	:	07.06.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	553	13.25	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/KRIDL /STEEL/2014-15 07.06.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Improvements of Roads (UGD Laying Roads) and Drains in Sandyagappa Reddy Layout, Mariyannapalya in Ward No.07 Byatarayanapura, BBMP, Bangalore.
Reference	:	AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 06.06.2014
Date of Test	:	07.06.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.30	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/KRIDL /STEEL/2014-15 07.06.2014

TEST REPORT ON REINFORCEMENT STEEL

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Reference	:	AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 06.06.2014
Date of Test	:	07.06.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.55	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/KRIDL/CUBE/2014-15 18.07.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Improvements of Roads (UGD Laying Roads) and Drains in Sandyagappa Reddy Layout, Mariyannapalya in Ward No.07 Byatarayanapura, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 06.06.2014

Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2014	18.07.2014	8.139	478.9	21.28
2	20.06.2014	18.07.2014	8.253	490.3	21.79
3	20.06.2014	18.07.2014	8.345	510.6	22.69

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TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Improvements of Roads (UGD Laying Roads) and Drains in Sandyagappa Reddy Layout, Mariyannapalya in Ward No.07 Byatarayanapura, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 06.06.2014

Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2014	18.07.2014	8.287	475.9	21.15
2	20.06.2014	18.07.2014	8.325	505.6	22.47
3	20.06.2014	18.07.2014	8.478	526.3	23.39

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